

UTAH DIVISION OF OIL AND GAS CONSERVATION

REMARKS: WELL G ELECTRIC LOGS FILE X WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

3-25-77 Footage location change

DATE FILED 2-4-77

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-12841 INDIAN

DRILLING APPROVED: 2-4-77

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 7240' 6R

DATE ABANDONED: 6-22-78- Location Abandoned; well never drilled

FIELD: ~~Wildcat~~ 3/86 Sowers Canyon

UNIT:

COUNTY: Duchesne

WELL NO. Right Fork Antelope Canyon Federal #19-1

APT. NO: 43-013-30418

LOCATION 505' FT. FROM (N) ~~XX~~ LINE, 848' FT. FROM (E) ~~XX~~ LINE, NE NE 1/4-1/4 SEC. 19

645'

TWP. RGE. SEC. OPERATOR

TWP. RGE. SEC. OPERATOR:

6S

4W

19

BURTON/HAWKS, INC.

3-25-77: Footage location change to: 505 FNL + 645' FEL

6-22-78- Location Abandoned; well never drilled

Permit revoked- has not been drilled

FILE NOTATIONS	
Entered in NID File <input checked="" type="checkbox"/>	Checked by Chief _____
Entered On S R Sheet _____	Copy NID to Field Office _____
Location Map Pinned <input checked="" type="checkbox"/>	Approval Letter _____
Card Indexed <input checked="" type="checkbox"/>	Disapproval Letter _____
I W R for State or Fee Land _____	
COMPLETION DATA:	
Date Well Completed _____	Location Inspected _____
OW _____ WW _____ TA _____	Bond released _____
GW _____ OS _____ PA _____	State of Fee Land _____
LOGS FILED	
Driller's Log _____	
Electric Logs (No.) _____	
E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____	
Lat _____ Mi-L _____ Sonic _____ Others _____	

LWP
3-27-90

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 359, Casper, Wyoming, 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 19, T6S-R4W (505' FNL/ 645' FFL)

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

14 miles from Duchesne, Utah, to the south

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

505'

17. NO. OF ACRES IN LEASE

920

18. NO. OF ACRES ASSIGNED

160

19. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

20. PROPOSED DEPTH

4300'

21. ROTARY OR CABLE TOOLS

Rotary

22. ELEVATIONS (Show whether DF, RT, GR, etc.)

7240 GR

23. APPROX. DATE WORK WILL START*

April 20, 1977

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 $\frac{1}{4}$ "	9-5/8"	32#	200'	To surface
8-3/4"	7"	20#	TD	250 sx. Ideal Class G

-) Intend to drill a 4300' test into the Green River formation
) Blowout Preventor Program:
a. 10" 900 Series Regan Hydril Type BOP
b. 10" 900 Series Cameron Double-Gate (pipe & blind) rams
c. 2" opening for choke system, 3000#
d. 2" kill lines

Approval notice - Div of Oil, Gas, & Mining - Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Robert E. Wellborn TITLE Exploration Manager

DATE 3-22-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE APR 13 1977APPROVED BY W.P. MartenTITLE ACTING DISTRICT ENGINEERDATE APR 13 1977

CONDITIONS OF APPROVAL, IF ANY:

Attachment to Form 9-331C "Application for Permit to Drill, Deepen , or Plug Back"

Burton/Hawks, Inc.
Right Fork Antelope Canyon Federal #19-1
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 19, T6S-R4W
Duchesne County, Utah

10 - POINT PROGRAM

1. Geologic name of the surface formation:

The surface formation is the Green River formation.

2. Estimated tops of important geologic markers

At total depth of 4300' we will still be in the Green River formation.

3. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations.

Water may be encountered in the various sandstones down to 1000'. Gas is anticipated in the "Wire Fence" pay sandstone at 4250'.

4. Casing program

- A. 9-5/8" surface casing - 32# J-55 New; to a minimum depth of 200' (or deeper if the pilot hole encounters a water flow).
- B. 7" production casing - 20#, J-55 New; to approximately 4300', T.D.

5. B.O.P. Program (see attached diagram)

- A. 10" 900 Series Regan Hydril Type BOP, 13,000#
- B. 10" 900 Series Cameron Double-Gate (Pipe & blind) rams
One 2" fill line, one 2" kill line.
- C. 10" 900 Series casingheads, flanges and spools; 3000# working pressure, 6000# test.

6. Drilling fluid

Air drilling; air provided by two Dresser-Atlas air compressors. In the event we must change over to mud, a water-base gel-chemical mud will be used.

7. Auxiliary Equipment

- A. One lower kelly cock
- B. 4 $\frac{1}{2}$ " regular float at the bit
- C. Monitoring system: visual
- D. 3 $\frac{1}{2}$ " IF sub on floor with fully opening valve to be stabbed into drill pipe when kelly is not in the string.

8. Testing, logging, and coring

No coring or testing anticipated. We intend to run a Gamma-Ray Induction, FDC-Gr, and perhaps a temperature log.

9. Abnormal pressure or temperatures

No abnormal pressures are anticipated. No H₂S gas is anticipated.

10. Starting date

Anticipated starting date would be April 20, 1977.

BURTON/HAWKS, INC.

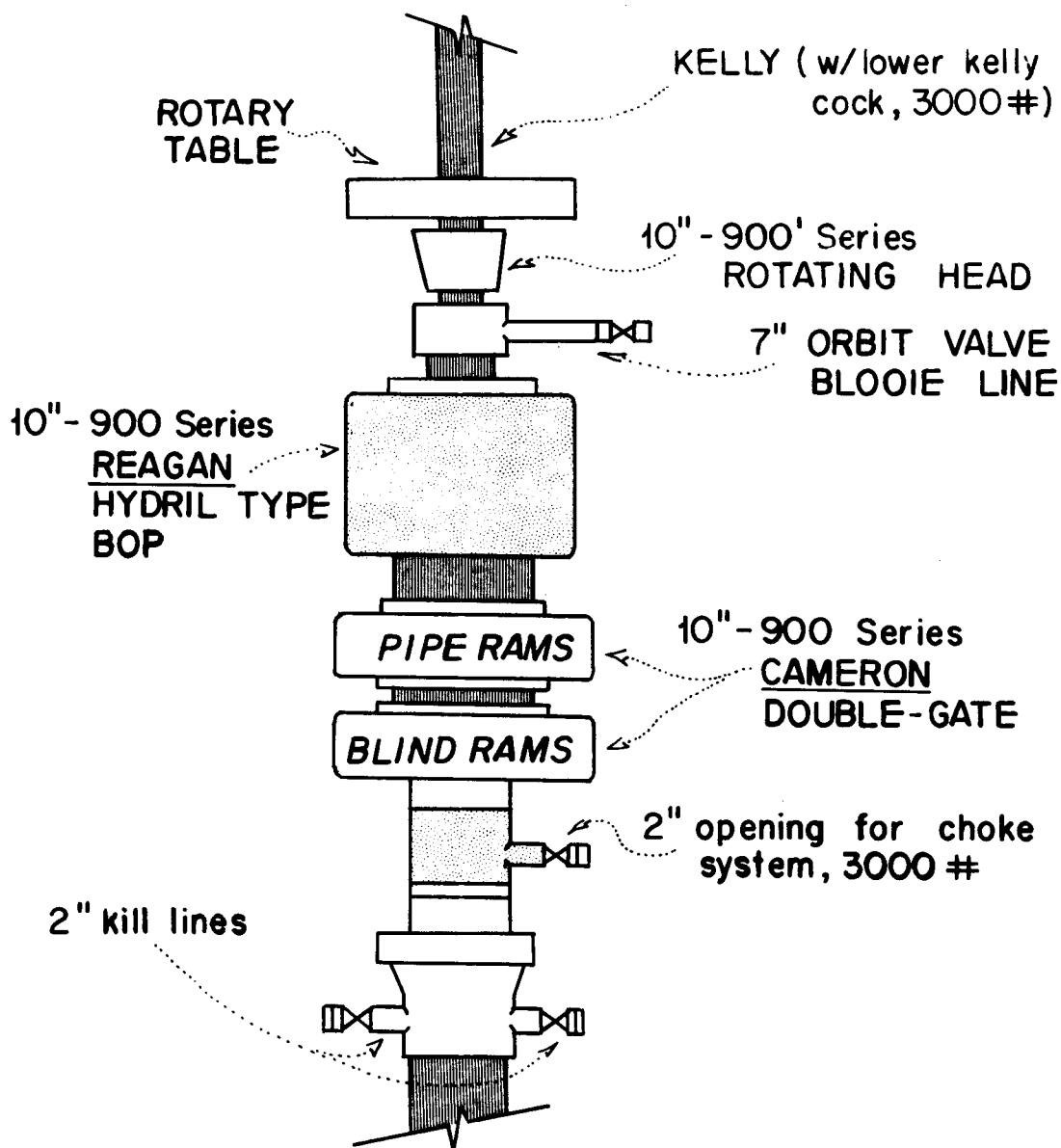
Robert E. Wellborn
Robert E. Wellborn
Exploration Manager

ATTACHMENTS:

BOP stack diagram

Burton/Hawks Drilling Co.

BOP STACK



Well No. Burton/Hawks, Inc.
Right Fork Antelope Canyon Federal #19-1
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 19, T6S-R4W
Duchesne County, Utah

1. EXISTING ROADS

- A. Proposed well site as staked. See accompanying topographic map. (Plate 1)
- B. Access will be 10 $\frac{1}{2}$ miles east of Duchesne, Utah, via Highway 40 to the Antelope Canyon Road, turning south off said highway and driving approximately 18 miles to the proposed drill site. Roads marked in red on Plate 1.
- C. No access road will be required at this location, as the road up the canyon passes along the north edge of the location.
- D. Existing roads within the area include the Right Fork Antelope Canyon Road, Nutters Ridge Road, Alkali Canyon Road, and the Left Fork Antelope Canyon Road. All of these are dirt roads with native rock and are capable of heavy truck traffic. Roads labeled on Plate 1.
- E. This is a wildcat well
- F. Road Maintenance: During drilling operations, sufficient road maintenance will be done to insure that no road or resource damage or deterioration will occur. Maintenance will include:
 - (1) Maintain already constructed intercepting dips to the access roads to their original size, shape and condition.
 - (2) Maintain road surfaces, leaving the present flare ditches intact and functional. Rocks can be worked off the road, but fine materials will be conserved for fill on the road.
 - (3) Deep dust or mud that accumulates during dry or wet periods will not be bladed off the road.
 - (4) Any brush, timber slash or debris created by road maintenance will be disposed of as directed by the District Ranger or Forest Service Representative.
 - (5) Upon completion of the drilling operation, all cut and fill slopes will be restored and maintained to the standards acceptable to the District Forest Ranger.

1. (F) (6) U.S. Forest Service Specification 10 will be followed in regard to road maintenance:

(a) Description: This work shall consist of the maintenance of gravel and native material on Ashley National Forest roads used by the permittee. The locations of the roads to be maintained are shown on the attached topographic map. Plate 1.

(b) Maintenance Specifications: Surface blading is keeping a native or aggregate roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the crown or slope of road way, shoulder, drainage dips, lead-off ditches, berms, turnout, and providing a level of smoothness appropriate for the amount of and kind of traffic served.

The existing roadbed, including turnout, shall be bladed, shaped to reasonably conform with the previous cross-section, and scarified, if necessary, to eliminate previously established ruts or to otherwise loosen the surface. Existing aggregate surfacing material shall be bladed to conserve material and to prevent segregation of particle sizes. Rocks or other material remaining on roadway surface after the final blading that fails to pass a 4-inch sieve or are larger than the maximum size imported surfacing, shall be removed from the road surface. The oversize material shall be bladed from the roadway.

Roadway cut slopes, ditches, and/or berms shall not be undercut.

At intersections, the roadbeds of side roads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

Drainage dips and lead-off ditches shall be cleaned and maintained to conform reasonably to their previous line, grade, and cross-section.

Maintenance work shall be scheduled with the District Ranger before beginning the work. This is necessary to take advantage of favorable local weather and moisture conditions.

(c) Drainage cleaning: Drainage cleaning is removing and disposing of all slough material from roadside ditches, lead-off ditches, inlet and outlet ditches at culverts to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross-section.

Slough material removed from the ditch may be blended into existing native road surface or shoulder or placed in designed berm in conjunction with surface blading operations. Slough material from ditch cleaning operations shall not be blended into aggregate surfaced roads unless otherwise agreed.

Where cross drainage is obtained by dips in the roadbed rather than culverts, these existing drainage dips shall be reshaped as originally constructed.

Bridge deck, cattleguard, and culvert cleaning will be considered as part of this specification.

1. (F) (6) (d) Clearing: A minimum amount of clearing is considered a normal part of routine maintenance. This would include downfalls and leaning snags that are a hazard to the normal operation of the road. All such material shall be disposed of by the permittee by blading to the side of the road where it can later be retrieved and disposed of by the government.
 - (e) General: Normal surface blading is estimated to take at least two passes of a motor grader per lane.
 - (f) Inspection Procedure: Periodic inspections to determine compliance with the specifications herein will be made by the Government. Acceptance will be determined by these inspections. Areas not meeting specifications shall be reworked by the permittee to bring them up to the required standard.
- (G) U.S. Forest Service 36 in regard to Reshape and Finish Existing Roadway, will be followed.
- (1) Description: This work shall consist of restoring the roadway, such as removing slides, cleaning ditches, restoring previously installed drainage, scarifying, and reshaping the roadway in accordance with these specifications and as shown on drawings or staked on the ground.
 - (2) Construction Requirements:
 - (a) Conditioning existing roadway. Existing roadbed shall be scarified where needed for the full width and to a depth sufficient to eliminate surface irregularities. Scarified roadbed shall then be bladed, shaped, and placed to restore the surface to typical cross sections to provide a reasonably smooth traveled way. All deleterious material and stones over 4 inches in greatest dimension encountered during the operation shall be removed. Materials so removed shall not be left on shoulders or in ditches. Slide material shall be removed and used, if suitable, or disposed of as shown on drawings or as agreed. All ditches and drains shall be reshaped and cleaned where necessary to insure efficient drainage. Backslopes shall not be undercut.
 - (3) Additional Material: Additional material used to restore roadway to the required lines, grade, and cross-section shall consist of suitable borrow, except where base course and/or surface course is required. Each of these materials shall be spread in a uniform layer, thoroughly mixed, placed, and shaped as outlined above.
 - (4) Disposal of Surplus Material: Surplus material shall be disposed of at locations shown on drawings by widening embankments, flattening slopes, or by depositing at agreed locations.
 - (5) Rock Sections: Rock sections and other sections where the natural material is not suitable for cushion need not be scarified, but shall be brought to grade with a minimum cushion of suitable borrow and/or aggregate base course as shown on drawings, and entire roadway shall be brought to the final elevation and shape as shown on drawings.

1. (G) (6) Damaged structures: All work shall be done so as to avoid damage to existing drainage facilities, and any such damage resulting from construction operations shall be repaired by permittee.
- (7) Finishing: Roadway shall be finish-shaped to conform with the typical section shown on drawings.

2. PLANNED ACCESS ROADS:

See Plate 1 (Inset Map). No access road required. No culverts needed; essentially flat terrain at drill site; no gates or cattleguards necessary.

3. LOCATION OF EXISTING WELLS:

See Plate 1. Located within a two-mile radius of the proposed drillsite is our Burton/Hawks Right Fork Antelope Canyon Federal #25-1, a shut-in gas well. This well is approximately 1.9 miles to the southwest. Also, within a two-mile radius of the proposed location is our proposed location Nutters Ridge Federal #13-1. No other wells are known to exist within the two-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. No facilities located within 1 mile radius of proposed drillsite.
- B. (1) All production facilities will fall on the existing well pad.
(2) See accompanying plat of production facilities (Plate 3).
(3) The surface at the proposed location contains some gravel and cobbles, and this material would be utilized for any further construction.
(4) The facilities and production pit will be fenced with fencing adequate to keep livestock and wildlife out.
- C. That part of the area no longer essential for production facilities, and space for a workover rig, will be graded back to slope, and restored and reseeded as per requirements of the U.S. Forest Service.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. The source of water supply will be located in Section 6, T5S-R3W, the junction formed by Sowers Creek and Antelope Creek. Water is purchased from an area rancher.
- B. The water will be hauled by water truck (100 bbl. capacity) along the roads shown on the map.
- C. No tractors or heavy equipment will be placed in drainage channels without consent of the Forest Service.

6. SOURCE OF CONSTRUCTION MATERIALS

- A. Construction materials should not be necessary at this location, as the surface material will be utilized. Native materials available on the site will be used if necessary.

6. B. Any materials used would be from Federal lands.
- C. No outside materials such as sand, gravel, etc. would be obtained from outside sources.
- D. No access roads needed to obtain materials.

7. METHODS OF HANDLING WASTE MATERIALS:

- A. Cuttings. Air drilled cuttings are blown into the blooie pit. They will be bulldozed over if essentially dry. If significant water is made to the pit, then it will be pumped out and disposed of as directed by the Duchesne District Ranger.
- B. Drilling fluids. In the event we have to mud up, the drilling mud will be contained in the reserve pit. Following drilling operations this would be pumped out and disposed of as (A) above. Reserve pits will have sufficient capacity to prevent drilling waste from polluting live streams. If a well is dry, the waste material will be pumped back into the drill hole. If developed into a producing well, it will be hauled away. Reserve pits will be so constructed to insure that no leakage, overland flow or pit failure will occur. Should the initial reserve pit become full prior to completion of drilling, excess waste will be disposed of as approved by the Duchesne District Ranger or Forest Service Representative.
- C. Sewage: A porta-toilet is on location at all times. Contents are hauled out and disposed of by the company from whom we are leasing. Sanitation and the disposal of all waste and refuse will be accomplished in a manner that is within the framework of the Pollution Statement Act (E.O. 11507).
- D. Garbage and Trash: This will be stored in a fenced trash pit, and hauled out to a dump during the final cleanup operation, or whenever the quantity becomes excessive.
- E. Cleanup of Well Site: When the rig moves out, the area will be thoroughly cleaned up, trash hauled away and disposed of properly, and the reserve and blooie pits pumped out as soon as practical following completion or plugging operations.

8. ANCILLARY FACILITIES

None planned.

9. WELL SITE LAYOUT

Drill site will require approximately 2 $\frac{1}{4}$ acres to accommodate drilling rig, mud tanks, reserve pits, equipment, and vehicles. Drill sites will be leveled as required, but not to exceed 270' by 375'. A reserve pit measuring 75' x 50' x 8' deep and a blooie pit measuring 75' x 40' x 5' deep will be excavated.

- A. Cross-section of drill pad with cuts and fills to be furnished by Casada Construction Company.

9. B. Enclosed is Plate 2 showing Burton/Hawks Drilling Co. Rig No. 1. Diagram shows complete overhead view of drilling rig (reserve pit, blooie pit, compressors, pipe racks, substructure, mud pumps, etc.). Also on Plate 2 is the actual pad diagram giving dimensions of the actual pad size and configuration.
- C. Rig orientation is shown on Plate 1 (Inset map) with the parking areas, soil material stockpile so labeled.
- D. Pits will be unlined, unless we are otherwise directed.
- E. All brush and trees removed from the site will be disposed of as directed by the Duchesne District Ranger or Forest Service Representative.

10. PLANS FOR RESTORATION OF THE SURFACE

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed.

- A. If a dry hole. Backfill all cuts and restore surface to original contour. Stockpiled topsoil will be distributed over the area.
- B. Revegetation of surface will be conducted as per requirements of the Duchesne District Ranger.
- C. Pits will be fenced if there is any delay in pumping out and infilling.
- D. Commence cleanup operations immediately on moving out rig. Pump pits as soon as possible, and start surface restoration work (2-3 weeks). Reseed area at a time and in a manner recommended by the Forest Service.
- E. If a producer, see Section 4-C.

11. OTHER INFORMATION

- A. The proposed drill site falls in a canyon with a reasonably flat floor. The ridges surrounding the drill site are sandstone in nature and support a growth of pinion and juniper trees. The brush (sagebrush and creosote bush) that at one time covered the valley floor has been removed and the area disked by the Forest Service in an attempt to start a growth of grass or alfalfa on the canyon floor. The only observed fauna has consisted of ground squirrels, jackrabbits, and occasional birds. All precautions will be taken to protect the environment and resources on and adjacent to the operations.
- B. The entire surface falls within the Ashley National Forest.
- C. There is no evidence of running water in the area, except at spring runoff time; no nearby dwellings; and no evidence of archeological, cultural, or historical sites in the immediate vicinity.
- D. Safety. Burton/Hawks will install signs warning the public of heavy truck traffic on single lane roads and hazardous locations.

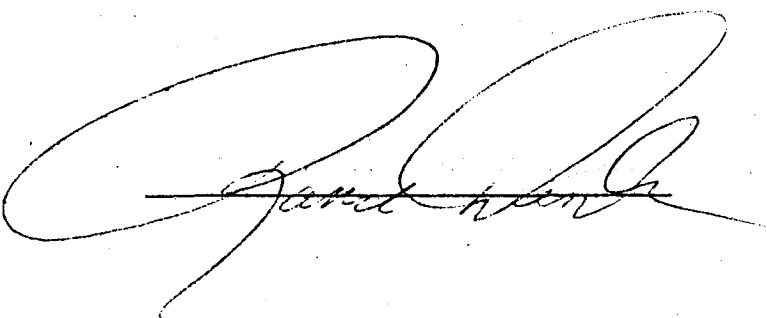
11. E. Fire Plans. All internal combustion engines will be equipped with approved mufflers or spark arrestors during periods of fire danger. During drilling operations, a fire tool cache will be located on each drill site. This cache will consist of a minimum of two pulaskis and three shovels in a sealed box plainly marked for "fire use only".
- F. All conditions of the Department of Agriculture stipulations and the lease special stipulations not herein mentioned will be observed and followed.
- G. Cattleguards meeting Forest Service Specifications will be installed at all designated fence locations.
- H. Should there become producing wells, an operation plan for the production phase will be negotiated.
- I. All ingress and egress to the drill site will be on established access roads. No off-road vehicle use will be permitted without the consent of the Forest Service.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Rance Denton
P. O. Box 79
Duchesne, Utah, 84021
(801) 738-5351

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Burton/Hawks Drilling Co., P. O. Box 359, Casper, Wyoming, 82602, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



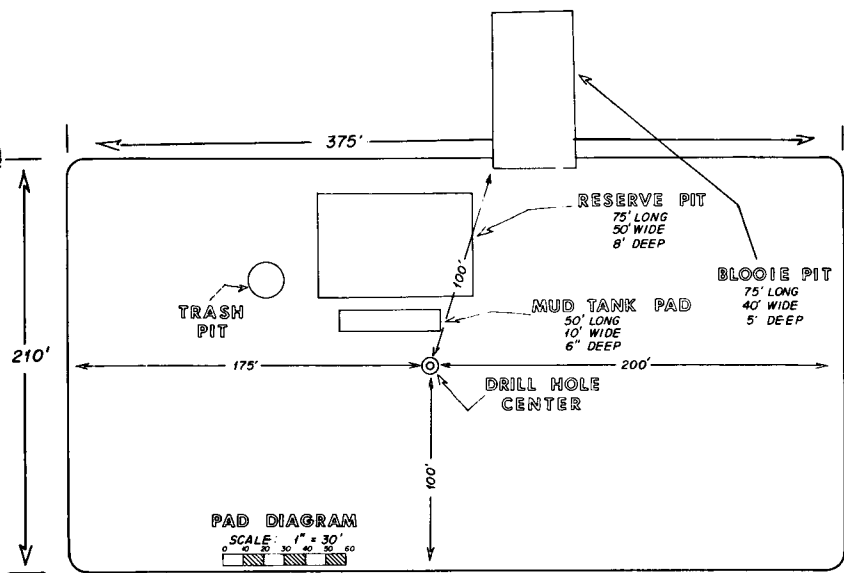
Rance Denton, Tool Pusher

Name and Title

Rigged for air drilling

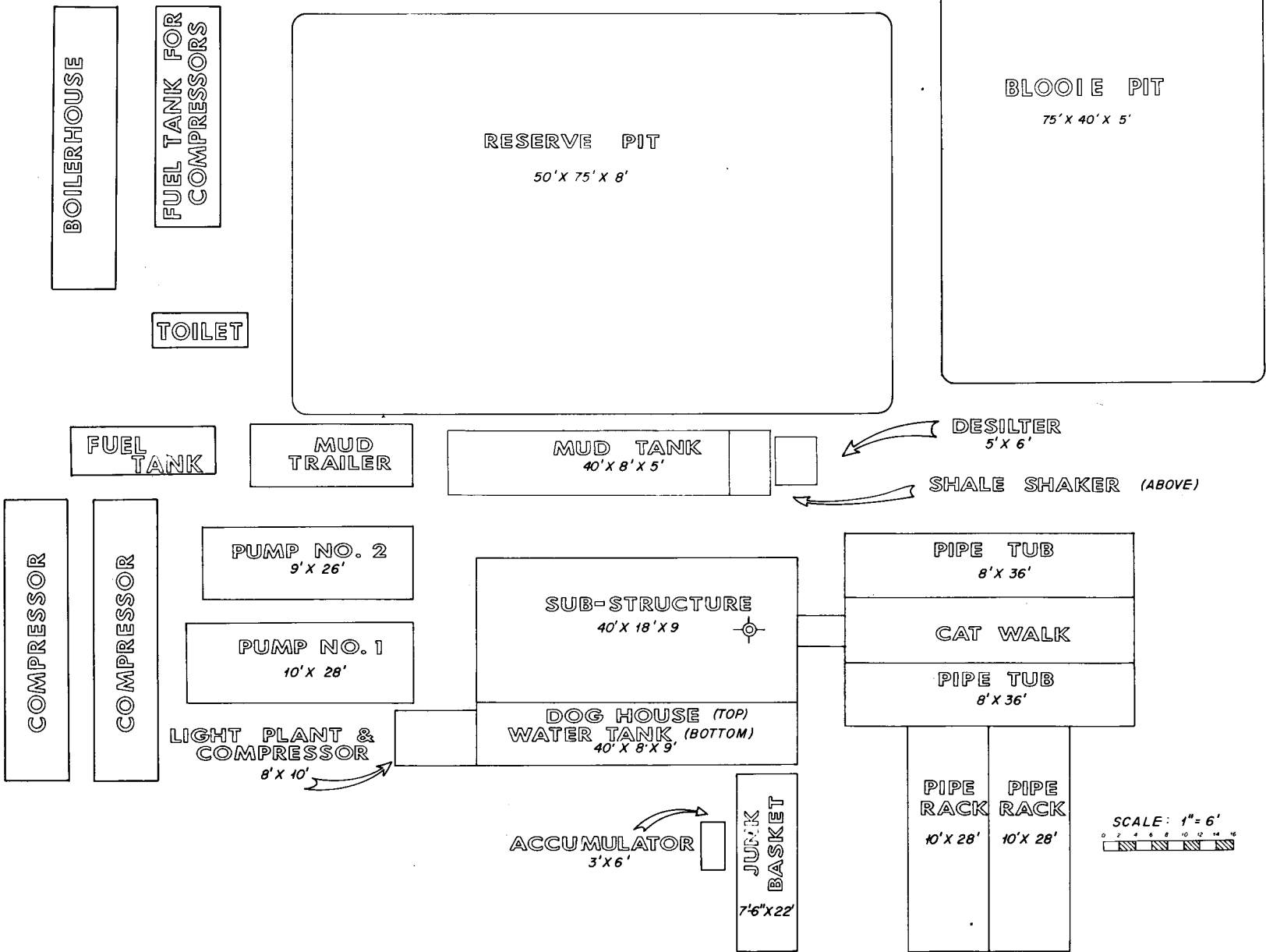
PLATE 2

PREVAILING
WIND



BURTON / HAWKS
DRILLING
CO.

RIG NO. 1



PROPOSED PRODUCTION FACILITIES

BURTON/HAWKS, INC.
Right Fork Antelope Canyon
Federal 19-1

N

EXISTING ROAD

TANK BATTERY

ORIGINAL EDGE OF PAD FOR DRILL RIG

WELLHEAD

PRODUCTION PIT
(FORMER BLOOIE PIT)

100'

125'

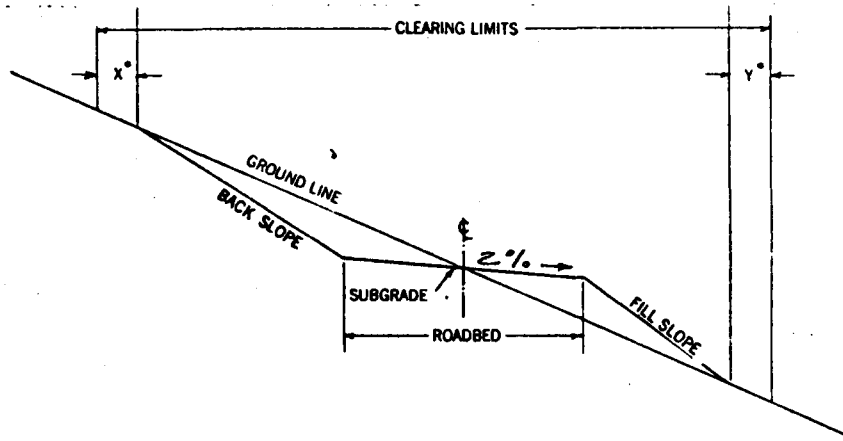
150'

SEPARATOR/TREATER

PLATE 3

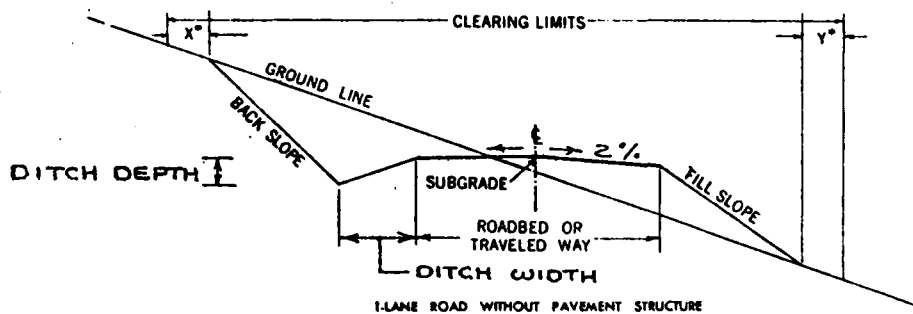
1"=400'

CROSS-SECTION AND ROAD STRUCTURE TERMS



1-LANE ROAD - OUTSLOPED - WITHOUT PAVEMENT STRUCTURE

A



1-LANE ROAD WITHOUT PAVEMENT STRUCTURE

B

Roadbed Width = 12' w/10' turnouts

Clearing Limits =

$X = 3'$

$Y = 0$ or $\Rightarrow 9'$ from center line

Fill Slope = 2:1

Back Slope = 2:1

Ditch Width = 4'

Ditch Depth = 1'



BURTON/HAWKS, INC.

First National Bank Building
P. O. Box 359
Casper, Wyoming 82602
307/234/1593

March 22, 1977

U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah, 84111

State of Utah
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah, 84111

Re: Burton/Hawks, Inc.
Right Fork Antelope Canyon Federal #19-1
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 19, T6S-R4W
Duchesne County, Utah

Gentlemen:

Enclosed please find the following information pertaining to the drilling of the above captioned well:

1. Revised Notice of Intent to Drill, with 10-Point and 13-Point (NIL-6) programs attached.
2. Revised location plat.

If further information is required, please let us know.

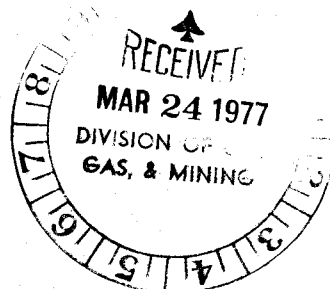
Yours very truly,

BURTON/HAWKS, INC.

Robert E. Wellborn
Robert E. Wellborn,
Exploration Manager

Enclosures

cc: John Vasten, USFS, Duchesne, Utah



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 359, Casper, Wyoming, 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE 1/4 Sec. 19, T6S-R4W (505' FNL (645' FFL))

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

14 miles from Duchesne, Utah, to the south

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

505'

16. NO. OF ACRES IN LEASE

920

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

4300'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7240 GR

22. APPROX. DATE WORK WILL START*

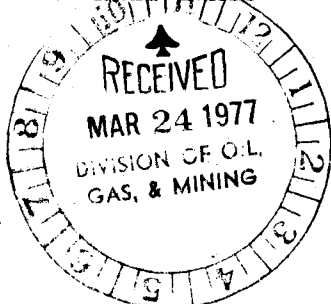
April 20, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9-5/8"	32#	200'	To surface
8-3/4"	7"	20#	TD	250 sx. Ideal Class G

- 1) Intend to drill a 4300' test into the Green River formation
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 - 10" 900 Series Cameron Double-Gate (pipe & blind) rams
 - 2" opening for choke system, 3000#
 - 2" kill lines



Refused, Location Change

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Robert E. Wallborn
Robert E. Wallborn

TITLE

Exploration Manager

DATE

3-22-77

PERMIT NO.

APPROVAL DATE

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

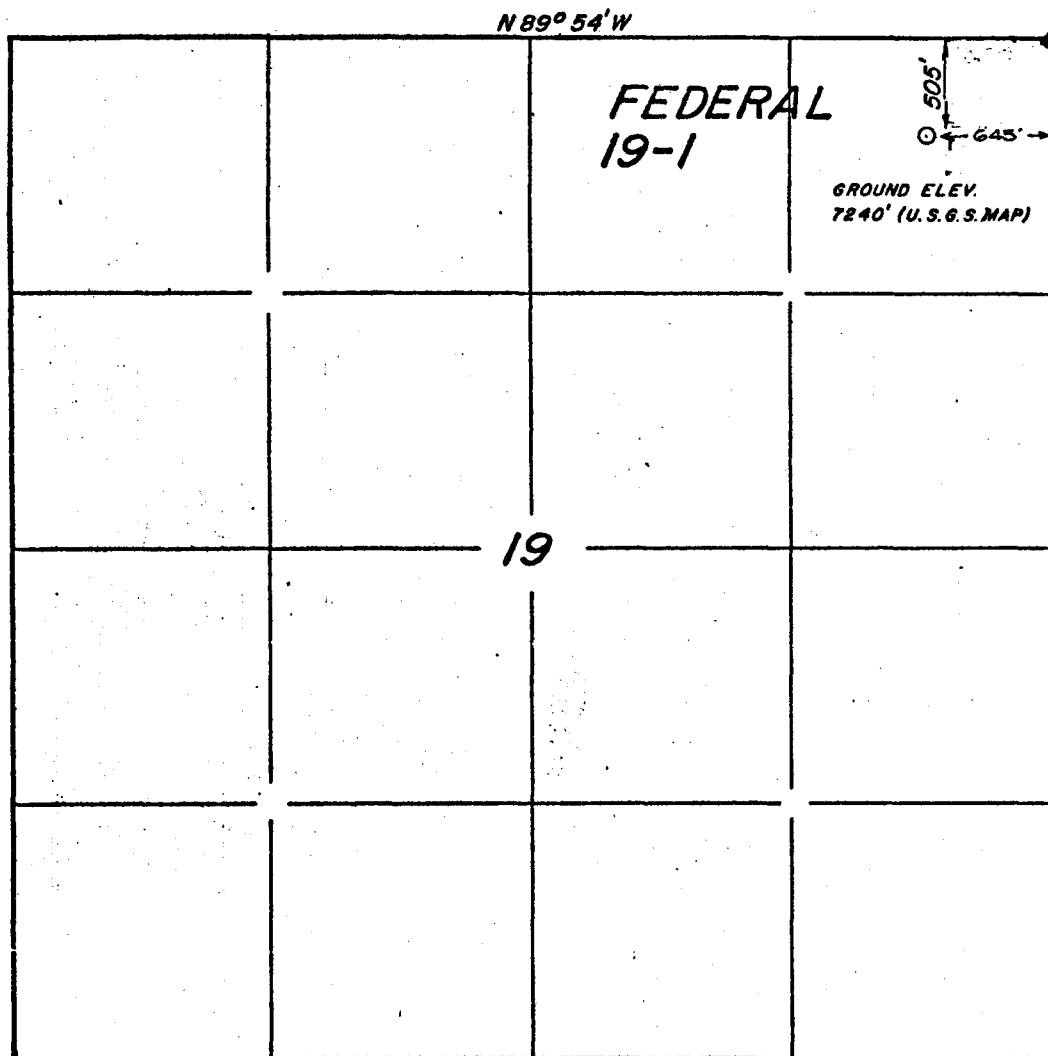
DATE

CONDITIONS OF APPROVAL, IF ANY:

BY: *Clayton*

BURTON/HAWKS INC.
WELL SITE LOCATION
RIGHT FORK of ANTELOPE CANYON

NE 1/4 OF NE 1/4, SEC. 19
T6S, R4W, U.S.B. & M.



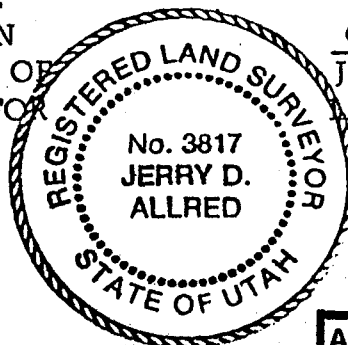
LEGEND & NOTES

◆ ORIGINAL STONES FOUND

THE BASIS OF BEARINGS FOR THIS SURVEY WAS DETERMINED BY SOLAR OBSERVATION. ORIGINAL GENERAL LAND OFFICE NOTES AND PLATS ON FILE WITH THE UTAH DEPARTMENT OF NATURAL RESOURCES WERE USED FOR REFERENCES AND CALCULATIONS.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME DURING WHICH THE MONUMENTS SHOWN WERE FOUND OR ESTABLISHED.



Jerry D. Allred
JERRY D. ALLRED, REGISTERED
LAND SURVEYOR, CERT.#3817

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 359, Casper, Wyoming, 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface ☒ NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 19, T6S-R4W (505' FNL/545' FNL)At proposed prod. zone ☐

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

14 miles from Duchesne, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 505'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

920

17. NO. OF ACRES ASSIGNED

TO THIS WELL 160 acres

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

4200'

20. ROTARY OR CABLE TOOLS

Rotary ☒

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7240' GR

22. APPROX. DATE WORK WILL START*

February 24, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 $\frac{1}{4}$ "	8-5/8"	24#	200'	To surface

Township 6 South, Range 4 West,

Section 19: N $\frac{1}{2}$, SE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 20, W $\frac{1}{2}$ 920 acresBlowout Preventor: 8" Shaffer, 3 $\frac{1}{4}$ " Drill Pipe Rams, one 2" fill line, one 2"
Kill line. No choke line.

Intend to drill a 4200' test into the Green River formation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Robert E. Wellborn
Robert E. Wellborn

TITLE

Exploration Manager

DATE

2-1-77

(This space for Federal or State office use)

PERMIT NO.

43-113-30418

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



BURTON/HAWKS, INC.

First National Bank Building
P. O. Box 359
Casper, Wyoming 82602
307/234/1593

February 2, 1977

OPERATING PLAN

Duchesne Cty, Utah

A. LEASE NO., NAME AND LOCATION OF WELLS

1. Lease No. U-5635 -Nutters Ridge Fed.#13-1, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T6S-R5W
2. Lease No. U-12841 -Right Fork Antelope Canyon Fed.#19-1, NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 19, T6S-R4W

Prior to beginning any clearing, construction or operations, including road and drill site location and construction, Burton/Hawks, Inc. will contact the Duchesne District Ranger or designated Forest Service Representative.

B. ROAD CONSTRUCTION

1. Federal #13-1 - access will be via Sowers Canyon Road to Forest Development Road 333; then via FDR 333 to drill site. FDR 333 is an improved dirt road, so no additional road construction will be required.
2. Federal #19-1 - access will be 10 $\frac{1}{2}$ miles east from Duchesne via Highway 40 to the Antelope Canyon Road, turning south off said highway and driving approximately 5 miles to the drill site.
 - (a) Access roads will be constructed in such a manner that a minimum amount of soil and ground cover will be disturbed. Any road location must be approved by the Duchesne District Ranger prior to construction. Any deviation from the approved location and SL-12 standards with intercepting dips must be approved by the Duchesne District Ranger prior to making the change.
 - (b) The maximum grade allowed on relocated sections will be 6%; except on short pitches up to 200 feet, 8% will be permitted.
 - (c) Road cuts and fills will be finished to a 1 $\frac{1}{2}$:1 ratio or flatter.
 - (d) Road will be sloped to insure full and complete drainage. Intercepting dips and flare ditches will be staked by the Forest Service.
 - (e) Remove only trees and brush necessary to obtain good road alignment.
 - (f) Vegetation removed in road construction will be disposed of as directed by the Duchesne District Ranger or designated Forest Service representative.
 - (g) Specification 36 (attached) will be followed.

C. ROAD MAINTENANCE

During drilling operations, sufficient road maintenance will be done to insure that no road or resource damage or deterioration will occur. Maintenance will include:

- (1) Maintain already constructed intercepting dips to the access roads to their original size, shape and condition.
- (2) Maintain road surfaces leaving the present flare ditches intact and functionable. Rocks can be worked off the road, but fine materials will be conserved for fill on the road.
- (3) Deep dust or mud that accumulates during dry or wet periods will not be bladed off the road.
- (4) Any brush, timber slash, or debris created by road maintenance will be disposed of as directed by the District Ranger or Forest Service representative.
- (5) Upon completion of the drilling operation, the access road, including drainage and cut and fill slopes will be restored and maintained to the standard acceptable to the District Forest Ranger.
- (6) Specification 10 (attached) will be followed.

D. DRILLING SITES

Each drill site will require approximately one and one-half acres to accomodate drilling rig, mud tanks, reserve pits, equipment, and vehicles. Well locations are shown in Paragraph A.

Requirements:

- (1) Drillsites will be leveled as required, but not to exceed 200 feet x 350 feet. Also a reserve pit of 75 feet x 50 feet x 8 feet will be excavated.
- (2) All brush and trees removed from the site will be disposed of as directed by the Duchesne District Ranger or Forest Service representative.
- (3) Reserve pits will be so constructed to insure that no leakage, overland flow or pit failure will occur.
- (4) Should the initial reserve pit become full prior to completion of drilling, excess waste will be disposed of as approved by the Duchesne District Ranger or Forest Service representative.
- (5) Upon completion of drilling operations, reserve pits will be pumped and material disposed of as directed by the Duchesne District Ranger or Forest Service representative. Pits will be restored to natural condition and made solid.

- (6) During the drilling period, pits will be fully fenced to a height of at least 54" with woven and/or barbed wire.
- (7) All top soil removed in leveling and reserve pit construction will be stockpiled to be replaced over the operation and pit areas during site restoration.
- (8) On completion of the drilling operation, the drill site and reserve pits will be restored to natural contour of the surrounding topography, and stockpiled top soil will be spread over the restored area.
- (9) Reserve pits will have sufficient capacity to prevent drilling waste from polluting the live streams. If a well is dry, the waste material will be pumped back into the drill hole. If developed into a producing well, will be hauled away.
- (10) The restored area will be fertilized and reseeded as prescribed by the Forest Service representative.
- (11) All precautions will be taken to assure public safety in drilling and associated operations.

E. WATER SUPPLY

Water is not present on any of the drilling sites. There are small streams in Indian, Sowers, and Left and Right Antelope Canyons, but most drainages contain water only during periods of runoff.

- (1) If water is hauled to drilling sites, Burton/Hawks will obtain permission from appropriate land owner and/or water rights owner.
- (2) No tractors or heavy equipment will be placed in drainage channels without consent of Forest Service.
- (3) Restoration

F. SANITARY FACILITIES

- (1) No campsite or housing facilities will be located on the Forest Land without the consent of the Duchesne District Ranger.
- (2) A toilet will be supplied by Burton/Hawks for use of the drilling crew. Disposition and servicing of toilet will be the responsibility of the Company representative.

G. FIELD COORDINATION

- (1) John Vasten will be the Forest Service representative.
- (2) The Company will designate a field representative who will be responsible for operations under this plan, giving name, address, and telephone numbers. Rance Denton (801) 738-5351; or Duchesne (801) 738-2301, Vernal (801) 789-4200; Rig No. 694 or GMC No. 691

H. SAFETY

- (1) Burton/Hawks will install signs warning the public of heavy truck traffic on single lane roads and hazardous locations.

I. FIRE PLANS

- (1) All internal combustion engines will be equipped with approved mufflers or spark arrestors during periods of fire danger.
- (2) During drilling operations, a fire tool cache will be located on each drill site. This cache will consist of a minimum of two pulaskis and three shovels in a sealed box plainly marked for "fire use only".


K. GENERAL

- (1) All precautions will be taken to protect the environment and resources on and adjacent to the operations.
- (2) Sanitation and the disposal of all waste and refuse will be accomplished in a manner that is within the framework of the Pollution Statement Act (E.O. 11507).
- (3) All conditions of the Department of Agriculture stipulations and the lease special stipulations not herein mentioned will be observed and followed.
- (4) Cattleguards meeting Forest Service Specifications will be installed at all designated fence locations.
- (5) Should these become producing wells, an operation plan for the production phase will be negotiated.
- (6) All ingress and egress to the drill sites will be established access roads. No off-road vehicle use will be permitted without the consent of the consent of the Forest Service.

The undersigned have read the foregoing Operating Plan and agree to accept and abide by all terms and conditions set forth.

U. S. FOREST SERVICE

BURTON/HAWKS, INC.


Robert E. Wellborn,
Exploration Manager

DFR, Duchesne Ranger District

Forest Supervisor, Ashley Nat'l Forest

SPECIFICATION 36 - RESHAPE AND FINISH EXISTING ROADWAY

Description

- 1.1 This work shall consist of restoring the roadway, such as, removing slides, cleaning ditches, restoring previously installed drainage, scarifying, and reshaping the roadway in accordance with these specifications and as shown on drawings or staked on the ground.

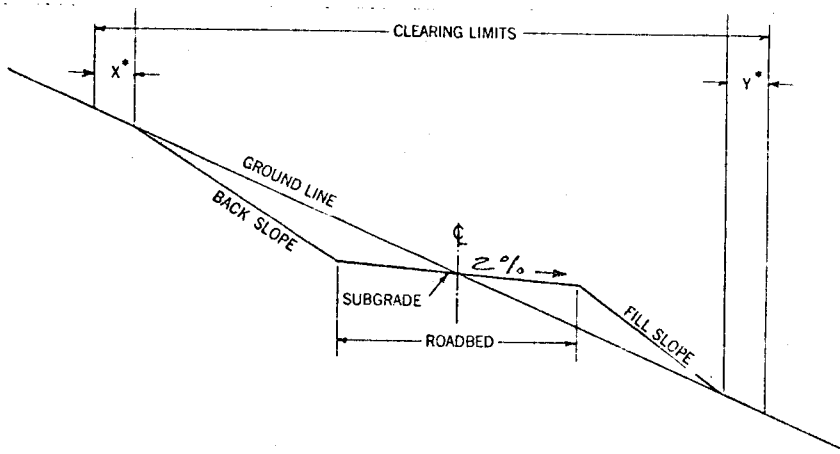
Construction Requirements

- 3.1 Conditioning Existing Roadway. Existing roadbed shall be scarified where needed for the full width and to a depth sufficient to eliminate surface irregularities. Scarified roadbed shall then be bladed, shaped, and placed to restore the surface to typical cross sections to provide a reasonably smooth traveled way. All deleterious material and stones over 4 inches in greatest dimension encountered during the operation shall be removed. Materials so removed shall not be left on shoulders or in ditches. Slide material shall be removed and used, if suitable, or disposed of as shown on drawings or as agreed. All ditches and drains shall be reshaped and cleaned where necessary to insure efficient drainage. Backslopes shall not be undercut.
- 3.2 Additional Material. Additional material used to restore roadway to the required lines, grade, and cross section shall consist of suitable borrow, except where base course and/or surface course is required. Each of these materials shall be spread in a uniform layer, thoroughly mixed, placed, and shaped as outlined above.
- 3.3 Disposal of Surplus Material. Surplus material shall be disposed of at locations shown on drawings by widening embankments, flattening slopes, or by depositing at agreed locations.
- 3.4 Rock Sections. Rock sections and other sections where the natural material is not suitable for cushion need not be scarified, but shall be brought to grade with a minimum cushion of suitable borrow and/or aggregate base course as shown on drawings, and entire roadway shall be brought to the final elevation and shape as shown on drawings.

3.5 Damaged Structures. All work shall be done so as to avoid damage to existing drainage facilities, and any such damage resulting from construction operations shall be repaired by permittee.

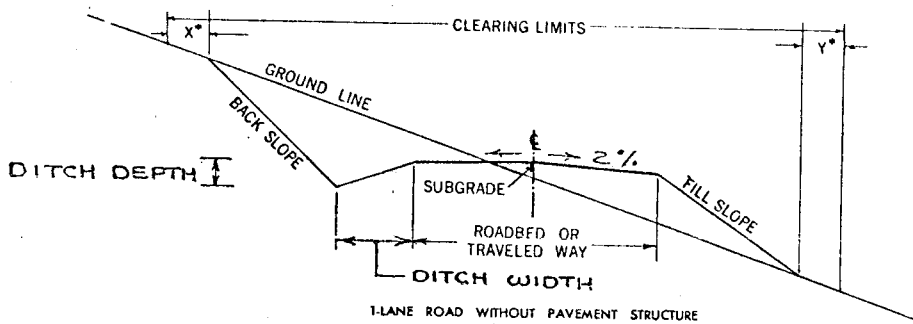
3.6 Finishing. Roadway shall be finish-shaped to conform with the typical section shown on drawings.

CROSS-SECTION AND ROAD STRUCTURE TERMS



1-LANE ROAD - OUTSLOPED - WITHOUT PAVEMENT STRUCTURE

A



1-LANE ROAD WITHOUT PAVEMENT STRUCTURE

B

Roadbed Width = 12' w/10' turnouts

Clearing Limits =

$X = 3'$

$Y = 0$ or $\Rightarrow 9'$ from center line

Fill Slope = 2:1

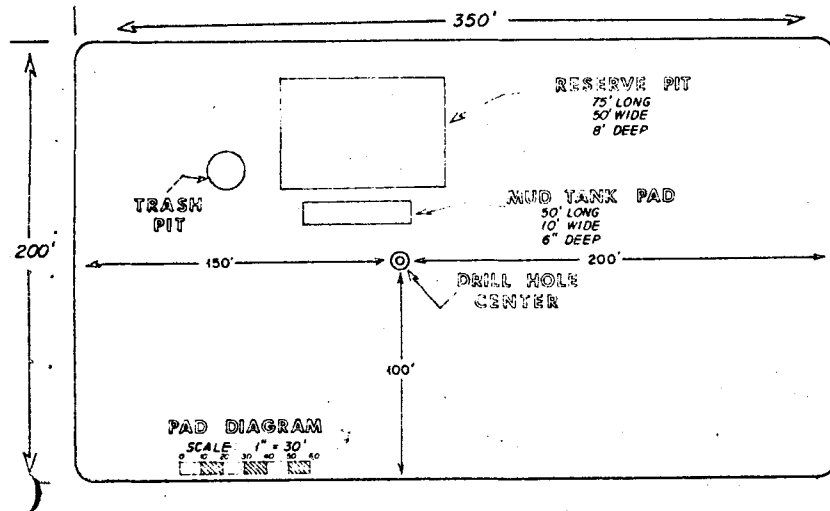
Back Slope = 2:1

Ditch Width = 4'

Ditch Depth = 1'

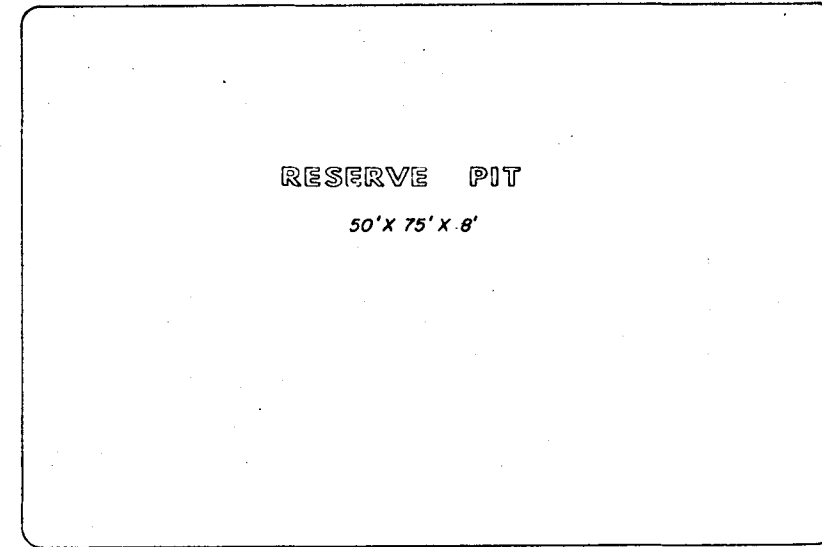
BURTON / HAWKS DRILLING COMPANY

RIG NO. 1



BOILERHOUSE
35' X 8' X 8'

PORTA
TOILET



MUD
TRAILER

MUD TANK
40' X 8' X 5'

DESILTER
5' X 6'

SHALE SHAKER (ABOVE)

PUMP NO. 2
9' X 26'

PUMP NO. 1
10' X 28'

LIGHT PLANT &
COMPRESSOR
8' X 10'

SUB-STRUCTURE
40' X 18' X 9'

DOG HOUSE (TOP)
WATER TANK (BOTTOM)
40' X 8' X 9'

PIPE TUB
8' X 36'

CAT WALK

PIPE TUB
8' X 36'

PIPE
RACK
10' X 28'

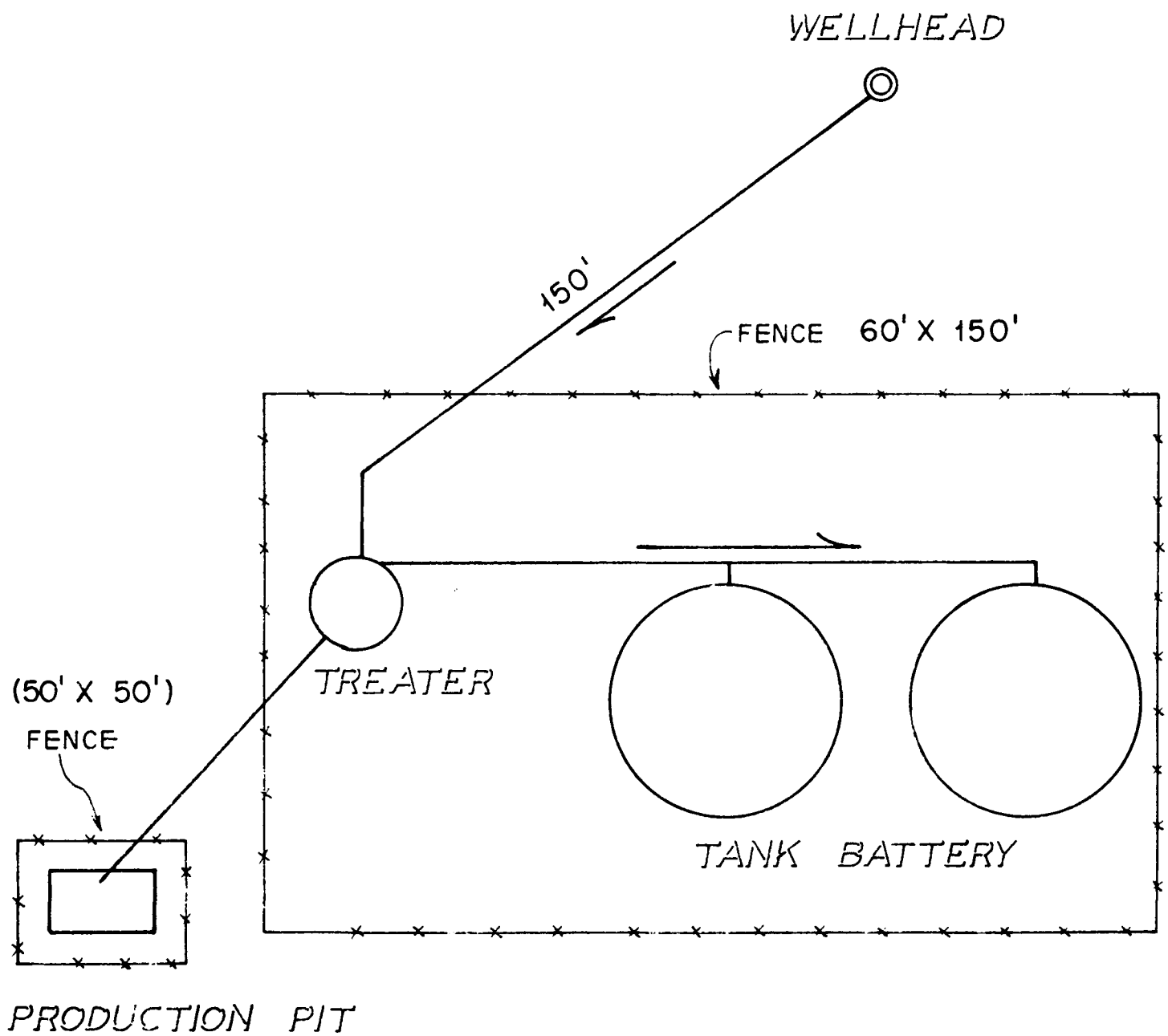
PIPE
RACK
10' X 28'

ACCUMULATOR
3' X 6'

JUNK
BASKET
7'-6" X 22'

SCALE: 1" = 6'

PRODUCTION FACILITIES



SPECIFICATION 10 - ROAD MAINTENANCE

Description

- 1.1 This work shall consist of the maintenance of gravel and native material roads on the Ashley National Forest used by the permittee. The locations of the roads to be maintained are shown on the attached reference map.

Maintenance Specifications

- 2.1 Surface Blading. Surface blading is keeping a native or aggregate roadbed in a condition to facilitate traffic and provide proper drainage. It includes maintaining the crown or slope of roadway, shoulder, drainage dips, lead-off ditches, berms, turnouts, and providing a level of smoothness appropriate for the amount and kind of traffic served.

The existing roadbed, including turnouts, shall be bladed, shaped to reasonably conform with the previous cross-section, and scarified, if necessary, to eliminate previously established ruts or to otherwise loosen the surface. Existing aggregate surfacing material shall be bladed to conserve material and to prevent segregation of particle sizes. Rocks or other material remaining on roadway surface after the final blading that fails to pass a 4-inch sieve or are larger than the maximum size imported surfacing shall be removed from the road surface. The oversize material shall be bladed from the roadway.

Roadside cut slopes, ditches, and/or berms shall not be undercut.

At intersections, the roadbeds of side roads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

Drainage dips and lead off ditches shall be cleaned and maintained to conform reasonably to their previous line, grade, and cross-section.

Maintenance work shall be scheduled with the District Ranger before beginning the work. This is necessary to take advantage of favorable local weather and moisture conditions.

- 2.2 Drainage Cleaning. Drainage cleaning is removing and disposing of all slough material from roadside ditches, leadoff ditches, inlet and outlet ditches at culverts to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross section.

Slough material removed from the ditch may be blended into existing native road surface or shoulder or placed in designed berm in conjunction with surface blading operations. Slough material from ditch cleaning operations shall not be blended into aggregate surfaced roads, unless otherwise agreed.

Where cross drainage is obtained by dips in the roadbed rather than culverts, these existing drainage dips shall be reshaped as originally constructed.

Bridge deck, cattleguard, and culvert cleaning will be considered as part of this specification.

- 2.3 Clearing. A minimum amount of clearing is considered a normal part of routine maintenance. This would include downfalls and leaning snags that are a hazard to the normal operation of the road. All such material shall be disposed of by the permittee by blading to the side of the road where it can later be retrieved and disposed of by the Government.

- 2.4 General. Normal surface blading is estimated to take at least two passes of a motor grader per lane.

- 2.5 Inspection Procedure. Periodic inspections to determine compliance with the specifications herein will be made by the Government. Acceptance will be determined by these inspections. Areas not meeting specifications shall be reworked by the permittee to bring them up to the required standard.



BURTON/HAWKS, INC.

First National Bank Building
P. O. Box 359
Casper, Wyoming 82602
307/234/1593

12-POINT PROGRAM

December 20, 1976

Mr. Ed Gynn
U.S. Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah 84111

re: Burton-Hawks, Inc.
Federal 13-1
NW NE Sec. 13, T6S-R5W
Duchesne County, Utah

Burton-Hawks, Inc.
Federal 19-1
NE NE Sec. 19, T6S-R5W
Duchesne County, Utah

Dear Ed:

The following is Burton-Hawks, Inc.'s 12 Point Program for the above captioned wells.

1. Access to the drill site will be 10 $\frac{1}{2}$ miles east from Duchesne via Highway 40 to the Antelope Canyon Road, turning south off said highway and driving approximately 4 miles southwest to location.
2. The dotted road is new construction necessary to get to the drill site.
3. The location of the well is shown on the accompanying survey plat.
4. Lateral roads to new locations would be submitted at a later date.
5. Tank batteries and flow lines for a discovery well are shown on the accompanying rig layout plans.
6. Water for the drilling operations will be hauled by truck from local area ranchers.
7. Storage and removal of trash, garbage, and pollutants. All trash, garbage, etc. will be kept in containers and hauled out to a sanitary landfill. No trash or environmentally hazardous materials will be disposed of in the reserve pit. All wastes and by-products of this operation that might be detrimental to plant or animal life will be disposed of in a sanitary landfill.

8. & 9. No camps or airstrips are planned.
10. A plat of the drilling rig is included.
11. Restoration; Upon completion of activities, the site and road will be immediately restored to its original condition.

The reserve pit will be pumped out immediately at the close of drilling operations. The sludge pumped out must be disposed of at a sanitary landfill. A small amount of drill waste will be left in the reserve pit and covered with four feet of soil.

The drill pad will be ripped and restored to its original grade. The stored topsoil will be spread over it. If necessary, additional top soil will be hauled in to assure a good medium for plant growth.

The newly constructed road will be obliterated and reseeded to grass at the close of operations. All portions of the road to be restored will be ripped and the soil moved back in place to its near original condition.

All disturbed areas will be reseeded according to the directions of the Duchesne District Ranger or his designated Forest Service Representative.

12. The access road and location lie in sagebrush and creosote covered terrain reasonable flat in nature.

Yours very truly

Robert E. Wellborn
Robert E. Wellborn
Exploration Manager

Attachments

R 5 W

R 4 W

R 3 W

T 9 S

T 10 S

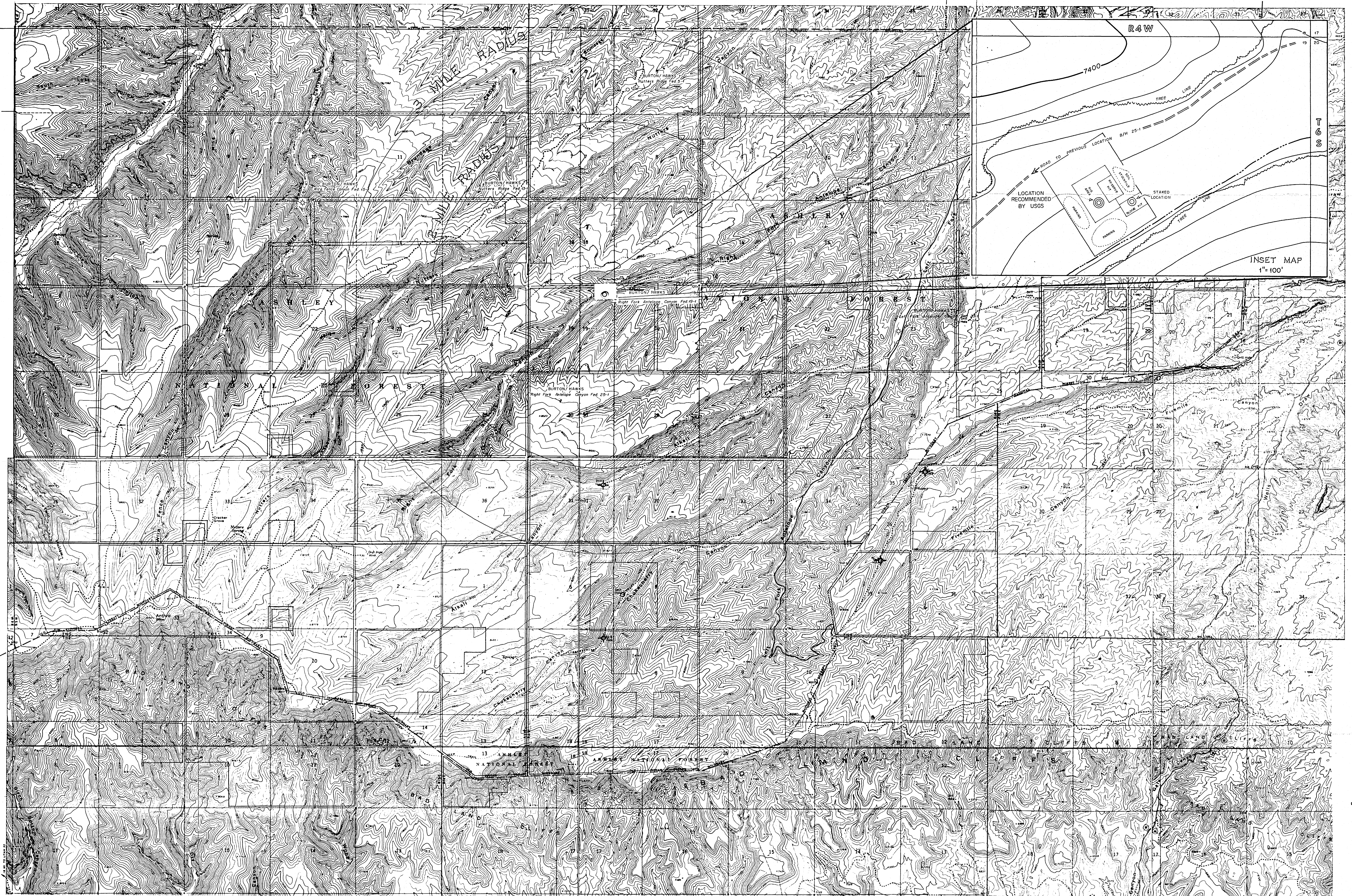
T 11 S

T 6 S

T 7 S

T 11 S

TO DUCHESNE



R 13 E

R 14 E

R 15 E

PLATE 1

SOUTH UINTA BASIN
TOPOGRAPHIC MAP WITH B/H LEASE OUTLINES

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

Call Burton Hawks on status

** FILE NOTATIONS **

Date:

Feb. 3-

Operator:

Burton Hawks Inc.

Well No.

Right Fork Antelope Canyon 19-1

Location:

Sec. 19 T. 6S R. 4W, County: *Duchesne*

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

Checked By:

Administrative Assistant:

AW

Remarks:

No other wells in Sec. 19-

Petroleum Engineer:

OK

Remarks:

Director:

7

Remarks:

Include Within Approval Letter:

Bond Required

OK

Survey Plat Required

☐

Order No.

☐

Surface Casing Change

☐

to

Rule C-3(c), Topographical exception/company owns or controls acreage within a 660' radius of proposed site ☐

O.K. Rule C-3

☒

O.K. In

Unit

☐

Other:

☒

Letter Written

February 7, 1977

Burton/Hawks, Inc.
P.O. Box 359
Casper, Wyoming 82602

Re: Well No. Right Fork
Antelope Canyon Fed. 19-1
Sec. 19, T. 6 S, R. 4 W,
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-013-30418.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

/SW

cc: U.S. Geological Survey

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Burton/Hawks, Inc. Right Fork Antelope Canyon #19-1	505' FNL, 645' FEL, Sec. 19, T6S, R4W, UML, Duchesne Co., Utah, Gr. El. 7240'	U-12841
<p>1. Stratigraphy and Potential Oil and Gas Horizons. Well will spud in the Green River Formation and test the formation for gas potential to a proposed T.D. of 4300'. See 10 Point Program #1, 2, and 3. Gulf Oil Corp. #1 Right Fork-Fed. (6805' K.B.), Sec. 10, same twp., reported the following top: Wasatch 5280'; T.D. 5525'. D&A. This test will not penetrate the Wasatch Fm.</p> <p>2. Fresh Water Sands. WRD reports no wells in vicinity of this test. Sands of the Green River Formation may contain usable water. See 10 Point Program, #3.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Prospectively valuable for oil shale in the Parachute Creek and Garden Gulch Members of the Green River Formation. Oil shale horizons penetrated should be protected.</p> <p>4. Possible Lost Circulation Zones. Unknown</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown. Protect all fresh water aquifers penetrated.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably adequate. Weathered shale will cave.</p> <p>8. Additional Logs or Samples Needed. Complete logs should be run through any oil shale intervals penetrated.</p> <p>9. References and Remarks USGS Prof. Paper 501-D. USGS Bull. 1405-C. USGS OM-171.</p>		
Date: 4-11-77		Signed: <i>Thomas R. Arroyo</i>

State O & C

Burton/Hawks
well # 19-1 NENE
Sec 19-6s-4w
U-12841
Duchess Co. Ut
USFS - Vasten
USGS - Alexander
Btl. - Denton

- | Construction | Pollution | Drilling
Production | Transport
Operations | Accidents | Other |
|--|-----------|------------------------|-------------------------|-----------|-------|
| Roads, bridges, airports | | | | | |
| Transmission lines, pipelines | | | | | |
| Dams & impoundments | | | | | |
| Others (pump stations,
compressor stations, etc.) | | | | | |
| Burning, noise, junk disposal | | | | | |
| Liquid effluent discharge . | | | | | |
| Subsurface disposal | | | | | |
| Others (toxic gases, noxious gas, etc.) | | | | | |
| Well drilling | | | | | |
| Fluid removal (Prod wells, facilities) | | | | | |
| Secondary Recovery | | | | | |
| Noise or obstruction of scenic views | | | | | |
| Mineral processing (ext. facilities) | | | | | |
| Others | | | | | |
| Trucks | | | | | |
| Pipelines | | | | | |
| Others | | | | | |
| Spills and leaks | | | | | |
| Operational failure | | | | | |

Category	1	2	3	4	5	6	7	8	9	10
Land Use										
Forestry	✓	/	/	/	/	/	/	/	/	/
Grazing	✓	0	/	/	/	/	/	/	/	/
Wilderness	NA									
Agriculture	NA									
Residential-Commercial	NA									
Mineral Extraction	NA									
Recreation	✓	0	/	/	/	/	/	/	/	/
Scenic Views	✓	/	/	/	/	/	/	/	/	/
Parks, Reserves, Monuments	NA									
Historical Sites	NA									
Unique Physical Features	NA									
Flora & Fauna										
Birds	✓	/	/	/	/	/	/	/	/	/
Land Animals	✓	/	/	/	/	/	/	/	/	/
Fish	NA									
Endangered Species	NONE	Known								
Trees, Grass, Etc.	✓	/	/	/	/	/	/	/	/	/
Surface Water	NA									
Underground Water	?									
Air Quality	✓	/	/	/	/	/	/	/	/	/
Erosion	✓	/	/	/	/	/	/	/	/	/
Other										
Effect On Local Economy	✓	0	0		0		0			
Safety & Health	✓	/	/	/	/	/	/	/	/	/
Other										

Others: Aug - Free
 cc: Forest Service w/ 10 minutes
 DOGm - Little
 Reg - Denver

Lease

U - 17841

Well No. & Location

19-1 NENE Sec. 19-6S-4W
Duchesne County, Utah -

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Burton/Hawks Inc.

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 4200 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 300 FT. X 250 FT. AND A RESERVE PIT 75 FT. X 50 FT.

3) TO CONSTRUCT ~~12 FT. X 3 MILE ACCESS ROAD~~ AND UPGRADE 12 FT.

X 5 MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD. All production

facilities constructed shall be contained on the existing disturbance -

2. Location and Natural Setting (existing environmental situation)

The wellsite falls in the canyon bottoms of the right fork of Antelope Canyon.

The site gently slopes to the north and is bordered on the south by the Antelope Canyon drainage.

The vegetation is sparse, pine, Pinon Juniper, Sagebrush, and assorted native grasses.

The wildlife is the usual Elk, deer, Antelope, small mammals and birds with no known endangered species.

There are no known historical sites that would be affected and no evidence of archeological sites was noted.

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) *Potential diversion of Antelope Canyon drainage due to small area for location. This would greatly increase erosion potential and sediment deposition downstream.*

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) *Due to erosion potential, the location was moved approx 100' west to avoid conflict w/ drainage.*

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

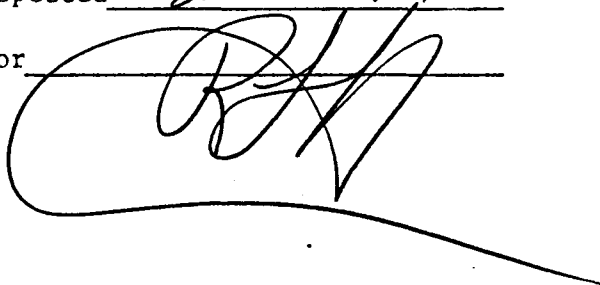
6. Determination

(This requested action (~~sets~~) (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

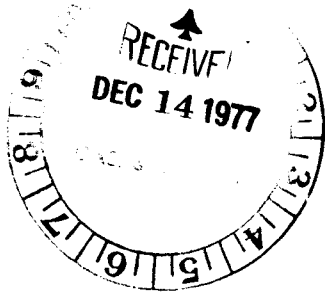
Date Inspected

2-4-77

Inspector



U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah



Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

December 12, 1977

Burton/Hawks, Inc.
P. O. Box 359
Casper, Wyoming 82602

Re: Well No. 19-1 - Right Fork
Antelope Canyon - NE $\frac{1}{4}$ NE $\frac{1}{4}$
Sec. 19, T.6S, R.4W, USM
Duchesne County, Utah
Lease Utah 12841

Gentlemen:

By letter dated December 8, 1977, Mr. Robert E. Wellborn advised this office that he did not wish to extend the referenced Application for Permit to Drill, which was approved April 13, 1977. Therefore, this Application is revoked effective as of this date without prejudice.

Any surface disturbance associated with this approved Application must be restored in accordance with the approved Surface Use Plan prior to release of bonding.

As he stated, should you desire to drill at this location at some future date, reapply for a permit to drill at that time.

Sincerely yours,

*Feb. 15, 1978 -
Bur. Hawks
said will
drill well*
(ORIG. SGD., W. P. MARTENS)

W. P. Martens
Acting District Engineer

bcc: Chief, Br. L&M, BLM, SLC
Utah State OGM
Ashley National Forest Service
O&GS, NRMA, Casper
USGS, Vernal
Well file

tw



CALVIN L. RAMPTON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

GUY N. CARDON
Chairman

CHARLES R. HENDERSON
ROBERT R. NORMAN
JAMES P. COWLEY
HYRUM L. LEE

CLEON B. FEIGHT
Director

June 19, 1978

Burton/Hawks, Inc.
P. O. Box 359
Casper, Wyoming 82602

Re: ✓ Well No. Right Fork Antelope Canyon 19-1
Sec. 19, T. 6S, R. 4W,
Duchesne County, Utah - March 78 thru May 78

Well No. Left Fork Antelope Canyon Fed. 23-1
Sec. 23, T. 6S, R. 4W,
Duchesne County, Utah - Jan. 78 thru May 78

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER
RECORDS CLERK

TO

State of Utah
Dept. of Natural Resources
Division of Oil, Gas and Mining
Salt lake City, Utah

FROM

BUTTON/HAWKS, INC.

P. O. BOX 359
CASPER, WYOMING 82601

SUBJECT: Monthly reports of operation

DATE: 6-22-78

FOLD ↑

★ { With reference to your letter of 6-19-78 regarding Monthly Reports of Operation on the Right Fork Antelope Canyon #19-1, Sec. 19, T6S-R4W and the Left Fork Antelope Canyon Fed. #23-1, S-c. 23, T6S, R4W, Duchesne County, Utah, please be advised that the Right Fork Antelope Canyon #19-1 was never drilled.

Monthly reports of Operations for the Left Fork Antelope Canyon #23-1 have been sent to your office monthly since June of 1977 on your Form DOGC-4 by our consulting engineering firm, McIlnay-Adams & Co. If a further check of your records fails to turn up the reports from January of this year, please advise and we will send you copies.

PLEASE REPLY TO →

SIGNED

Bill Hawks

Bill Hawks, President

REPLY



DATE:

SIGNED

THIS COPY FOR PERSON ADDRESSED